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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,732	03/14/2006	Akihiko Nishio	L9289.06112	9737
52989	7590	08/02/2011	EXAMINER	
James Edward Ledbetter			CASCA, FRED A	
1875 Eye Street			ART UNIT	PAPER NUMBER
Suite 1200			2617	
Washington, DC 20006				
		MAIL DATE	DELIVERY MODE	
		08/02/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/566,732	Applicant(s) NISHIO ET AL.
	Examiner FRED CASCA	Art Unit 2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 23 May 2011.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 12, 14 and 15 is/are pending in the application.
- 4a) Of the above claim(s) 12 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 14 and 15 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No./Mail Date _____ |
| 2) <input type="checkbox"/> Notice of Draftsmen's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No./Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to applicant's amendment filed on May 23, 2011. Claims 12, 14 and 15 are still pending in the present application, of which claim 12 is withdrawn from consideration. **This Action is made FINAL.**

IDS

2. The IDS submitted on January 15, 2010 is missing page 2. The IDS document on the top of page 1 recites "sheet 1 of 2." However, only page one of the IDS has been submitted. The applicant is requested to address the IDS page 2 in the next response.

Priority

3. The Examiner has acknowledged the Applicant's claim for foreign priority under 35 U.S.C. § 119, however, a certified and perfected copy of the priority document, Japanese Application No. 2003-288162, 08/06/2003 NO, has not been submitted to the USPTO. It is respectfully requested that a certified and perfected copy of the priority document be submitted in order to overcome references Baum et al (US 2005/0286547 A1), Sung et al (US 2005/0105589 A1) and Mukai (US 2005/0232135 A1). References Baum, Sung and Mukai disclose the main concepts of applicant's claimed invention and can be used as a potential reference in the rejection of applicant's claimed invention.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2617

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al (US 2002/0119781 A1) in view of Hwang et al (US 2005/0025039 A1).

Referring to claim 14, Li discloses a wireless communication apparatus (abstract, Par. 39, "subscribers") comprising:

a receiving section that receives information related to a number of subcarriers from a base station (Par. 37 and Par. 39, line 1-2 and lines 8-10, "each base station periodically broadcasts pilot OFDM symbols to every subscriber", Par. 41, lines 1-3, "each subscriber measures the SINR of each subcarrier", note that the "SINR" is the related information to subcarriers. Further note that in OFDM communication system, a transmitter intrinsically informs a receiver information about the number subcarriers being used in the communication between the transmitter and the receiver);

an extracting section that extracts the number of subcarriers from the received information (Par. 24, lines 3-5, "selects multiple subcarriers with good performance", note that SINR provides CQI), and

a transmission section that transmits channel quality indicators (Par. 24, lines 5-9, "feedback the information on these candidate subcarriers to the base station", note that SINR is the same as channel quality indicators).

Li is silent on whether or not the number of CQIs matches the number of subcarriers, as claimed.

Hwang discloses a transmission section that transmits a number of CQIs such that the number matches the number of subcarriers (Par. 30, particularly lines 7-14, "the MSS detects the CINR of each pilot subcarrier", note that the detection of CINR of each subcarrier is equivalent to a CINR for each subcarrier and thus the number of CINR matches the number of subcarrier. Further note that a mobile station (MSS) determines CINR (CQIs) of each subcarrier and then feedbacks the CINRs of the corresponding subcarriers based on the CQIs, thus the number CINRs must match the number of subcarriers).

It would have been obvious to a person of ordinary skill in the art at the time of invention to modify the invention of Li in the format claimed by incorporating the teachings of Hwang, for the purpose of providing feedback for every individual subcarrier and thereby implementing the appropriate modulation schemes for every individual subcarrier, and thus, providing efficient communication subcarriers.

Claim 15 recites features analogous to the features of claim 14. Thus, it is rejected for the same arguments as set forth in the rejection of claim 14 (see the rejection of claim 14 above).

Response to Arguments

6. Applicant's arguments filed on May 23, 2011 have been considered but they are not persuasive.

With regards to applicant's arguments that a verified translation of the instant priority application JP 2003-288162 has been submitted to the USPTO, the examiner respectfully disagrees.

The examiner asserts that only two pages of amendments were submitted on May 23, 2011 and without any claimed verified translation of the priority document. The examiner further inspected all the submitted documents for the entire prosecution history of the instant application in PAIR and eDAN, but did not find any evidence or document that would represent a translation of the priority document. A telephone call was made to applicant's representative, Mr. James Ledbetter, on July 29, 2011 to discuss the alleged submitted translation, but did not result in determining that the translation document was in fact submitted. Further, the applicant has not presented any arguments on rejection of the claims based on the cited prior art rejection. Accordingly, since the applicant has not challenged the prior art rejection of the claims and an English translation of the priority document has not been submitted, the rejection of the claims over the cited prior art is maintained.

With regards to the IDS submitted on January 15, 2010, the examiner asserts that page 2 of the submitted IDS is missing. The IDS document on the top of page 1 recites "sheet 1 of 2." However, only page one of the IDS has been submitted. The applicant is requested to correct the missing page of the IDS.

Conclusion

7. **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred A. Casca whose telephone number is (571) 272-7918. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard, can be reached at (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Fred A. Casca/

Examiner, Art Unit 2617

/Patrick N. Edouard/

Supervisory Patent Examiner, Art Unit 2617